



**TETRA TECH INC**  
A O N W U O  
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0756  
Elliott Shooting  
#MON980968383  
Break 22  
Other Tetra Tech  
11-18-87

November 18, 1987

TO David Crawford, U S EPA Primary Contact  
THRU Russell B Krohn, <sup>RAN FOR</sup> Tetra Tech, Inc Regional Manager  
FROM <sup>DMD</sup> Mark Doolan, Tetra Tech, Inc Work Assignment Manager  
SUBJECT Elliott Shooting Park Cleanup - Status Report  
October 29, 1987 through November 12, 1987  
Work Assignment #194

On November 3, 1987, Tetra Tech Inc TES IV representative Russ Krohn visited the Elliott Shooting Park site to observe remedial activities and progress made at the site during the past week. Upon arrival at the site, Mr Krohn met with Gene Mayfield of Kingston Construction. Kingston personnel were in the process of setting up a 60 ft long shaker/sieve screen system, normally used for grading stone, that will be used for separating clay pigeon fragments from the soil. A five yard scraper was being used to scrape soil from the area south of the ECA property. Clay pigeon fragments were still evident in this area. Mr Mayfield expressed his frustration with the project to Mr Krohn. He (Mr Mayfield) stated that he thought sampling south of 75th Street was ridiculous, as was the air monitoring. He also felt that the new shaker screen system would not work.

Mr Krohn walked the site to assess current conditions. It was noted that lead shot was beginning to be exposed on the surface near the clean fill that was placed in the old retention pond. The area south of ECA is now very likely to erode to the southeast toward the old road going to the east side of the ECA parking lot due to the removal of the berm at the top of the slope. The areas east of Section J are eroding into the excavated trench in Section J. Mr Krohn investigated the drainage on the west side of the site to determine where eroded sediments from the site may be travelling. It was determined that drainage from the trench in Section J flows west to the fence on the west side of the site, and then follows a ditch along the fence line south to 75th Street. The large pond to the west of the site does not appear to receive sediments from the site. Drainage south of 75th Street appears to be southwest and south via a swale on the west side of the residential area. This swale area is open and appears to have been regraded and seeded recently. Additionally, the pond appears to have had sediments removed from it in the recent past.

40165442



SUPPLEMENT RECORDS

During this visit, two persons from B & M were on site obtaining samples from Section J and the area west of the ECA parking lot. The scraper working at the site was stockpiling material in the south central portion of the site. Dust was not a problem due to recent rains.

On November 5, 1987, Mr. Krohn returned to the site to observe air sampling that was being performed by B&M personnel, to observe the shaker/sieve operation, and to discuss problem areas with Mary Erio. Mr. Krohn met with Mr. Bill Dexter, Mary Erio, and Gene Mayfield. Discussions centered on the shaker/sieve system, the possibility of using a wet process, and dust control. Ms. Erio also mentioned the possibility of using kiln dust on problem materials to stabilize them.

Mr. Krohn and Ms. Erio walked the site in order to discuss the problem areas, particularly those areas where contaminated materials were being eroded and washed onto clean areas. These areas include Section J and the trench in Section J, and areas around ECA. Mr. Krohn also pointed out that Kingston Construction was stockpiling clay pigeon fragments in areas on the northwest side of the site (area S) that had previously been reported as being clean. These stockpiles contain significant amounts of soil, and have the potential to contaminate the clean areas. Mary collected air samples, up and down wind from the shaker/sieve operation, however, moist conditions and light winds during this visit did not produce the dust problem that may occur in the future. Therefore, it is believed that the samples are not representative of drier conditions.

On November 12, 1987, Tetra Tech, Inc. TES IV representative, Mark Doolan, visited the site to assess the progress made since Mr. Krohn's visit on November 5. While on site, personnel from Kingston Construction were operating the shaker/sieve system and stockpiling the clay pigeon fragments on the northern portions of the site. Several stockpiles of both pigeon fragments and contaminated soil were also present in the south central portion of the site. Upon arrival, the Kingston operators were working on the shaker/sieve. Neither of the operators was wearing a dust mask or protective gear, and both were covered with black dust, including on their faces.

Mr. Doolan walked the site to assess the current conditions and photograph the site features. The photographs are attached to this report as Attachment 1. During this visit, it was apparent that Sections GG and FF (clay pigeon pit) had undergone substantial amounts of scraping and cleaning. Only minor amounts of clay pigeon fragments and trace amounts of lead shot were visible on the surface. Substantial amounts of lead shot were still visible in the wooded area between the pit and the ECA building. Abundant amounts of lead shot were also still present in the areas north of ECA, between the building and the parking lot, and north of the parking lot in the wooded area. The area west of the ECA parking lot and the slopes to the west and south of the building appeared clean and ready for backfill. The erosion control berm on top of the west slope next to the ECA building and the area immediately west of the berm were covered with substantial amounts of lead shot. The potential to be eroded onto the ECA property and the old retention pond area that has been backfilled with clean soil appears to exist. The trench in

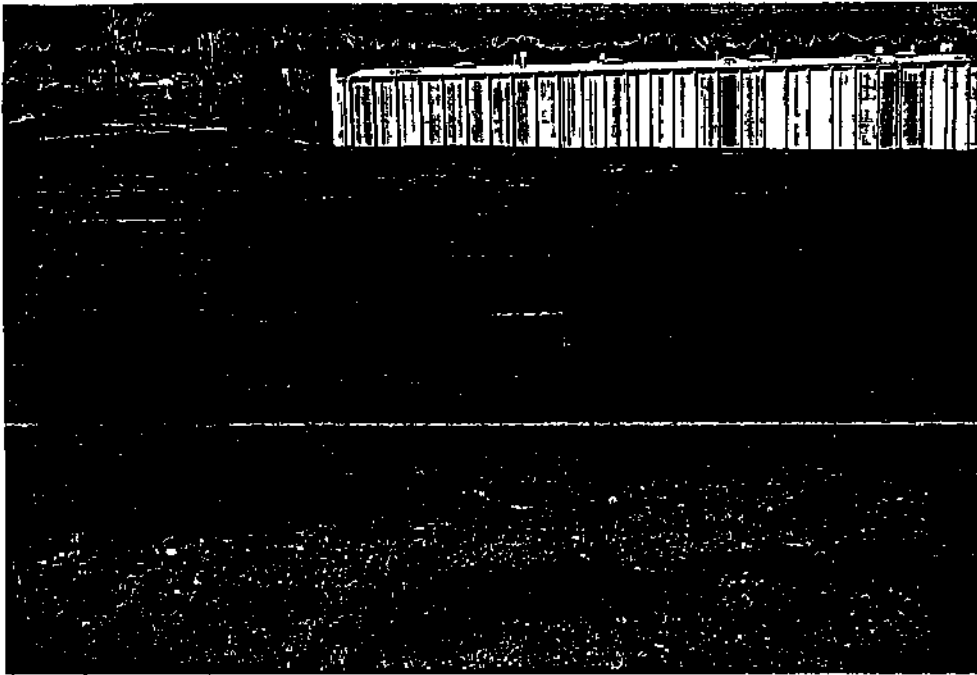
Section J now contains substantial amounts of clay pigeon fragments and sediments that have washed in from areas to the east. A stockpile of soil containing visible lead shot is present approximately 15 feet east from the head of the trench. It is highly suspected that soil and shot from this pile has washed into the trench. Sections R and Y contained stockpiles of what appeared to be clean soil. The operators on site told Mr. Doolan that they did not know where the soil had originated, or the use for which it was intended. Mr. Doolan suspects that it is to be used for backfill at ECA and is concerned that lead from the Sections R and Y will be picked up while moving the soil to ECA.

Mr. Doolan observed the shaker/sieve operation to assess its efficiency. It was noted that large clumps of soil and particularly sod pieces were passing through the system with the clay pigeon fragments. This material was being trucked to the clay pigeon stockpiles on the north side of the site. Additionally, significant amounts of dust were being created by both the shaker system and the dump truck that was hauling the material north to the stockpiles. During this visit, the wind was blowing the dust northeast toward the ECA property. Finally, it was noted that the fence around the new retention pond was still down on the north side of the pond.

ATTACHMENT A

Elliott Shooting Park  
Site Photographs

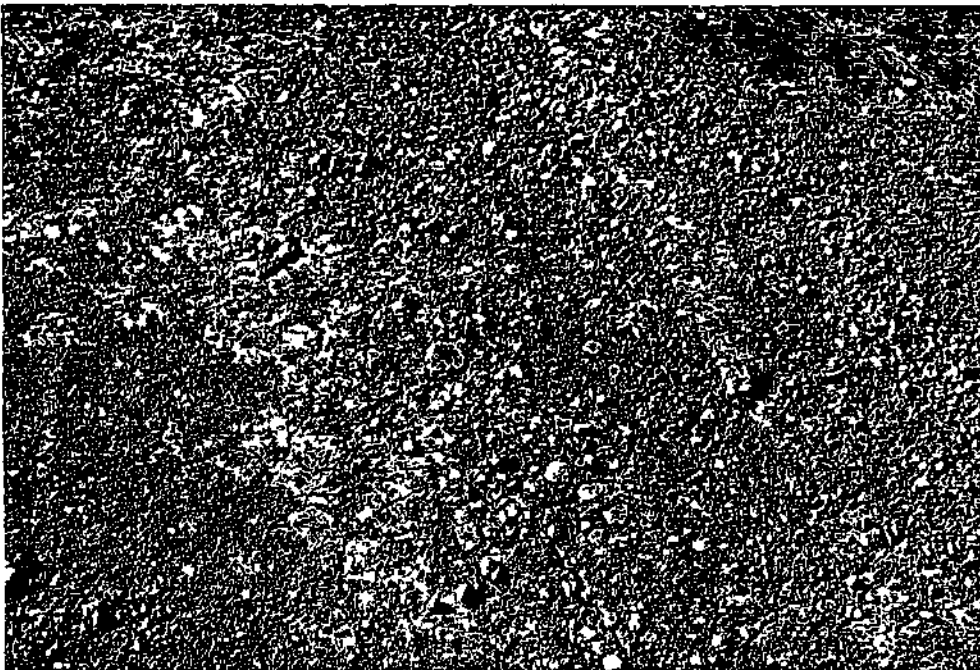
ON SCENE PHOTOGRAPHS



Exp Number 1  
Date 11/12/87  
Time 1340 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction N toward  
ECA

Subject Clay pigeon pit

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Exp Number 2  
Date 11/12/87  
Time 1341 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction N/A

Subject Ground surface in clay pigeon pit

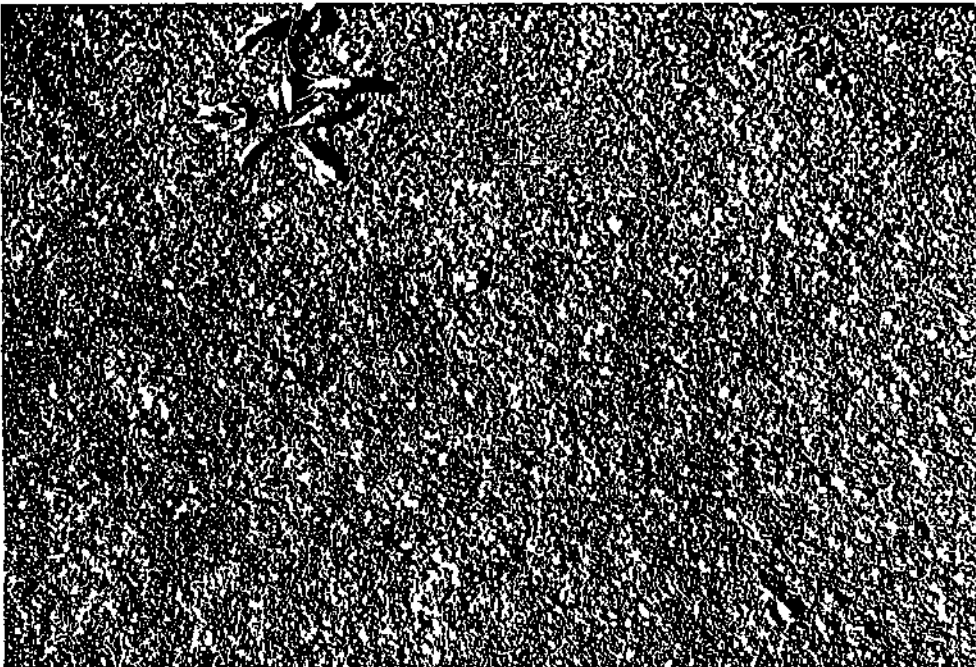
ON SCENE PHOTOGRAPHS



Exp Number 3  
Date 11/12/87  
Time 1345 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction N/A

Subject Ground surface in ditch north of ECA between building and parking lot  
with lead shot apparent

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Exp Number 4  
Date 11/12/87  
Time 1346 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction N/A

Subject Ground surface in ditch north of ECA between building and parking lot  
with lead shot apparent

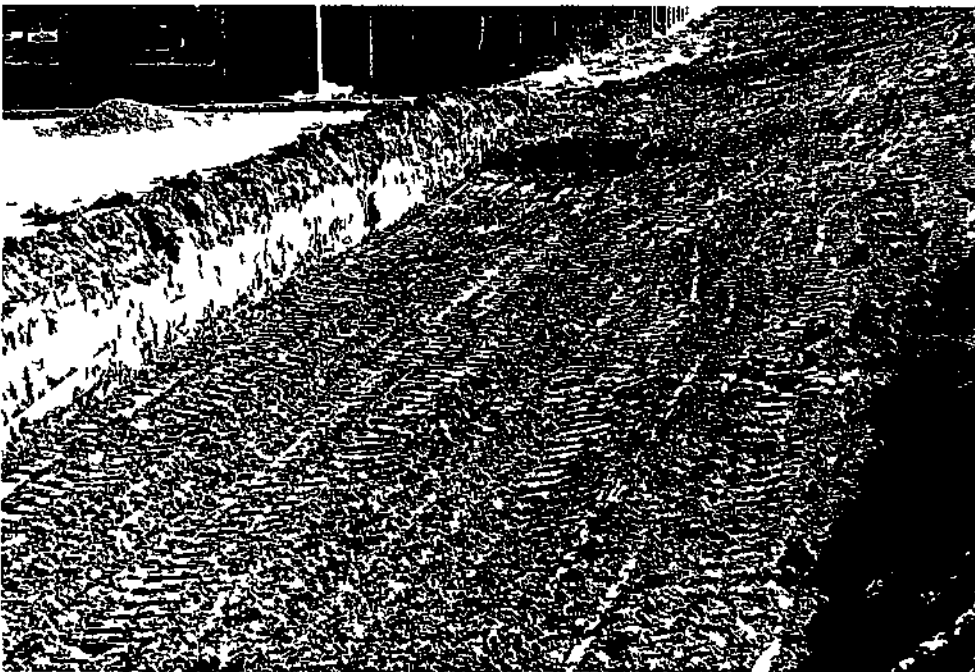
ON SCENE PHOTOGRAPHS



Exp Number 5  
Date 11/12/87  
Time 1350 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction N/A

Subject Ground surface north of ECA parking lot with lead shot apparent

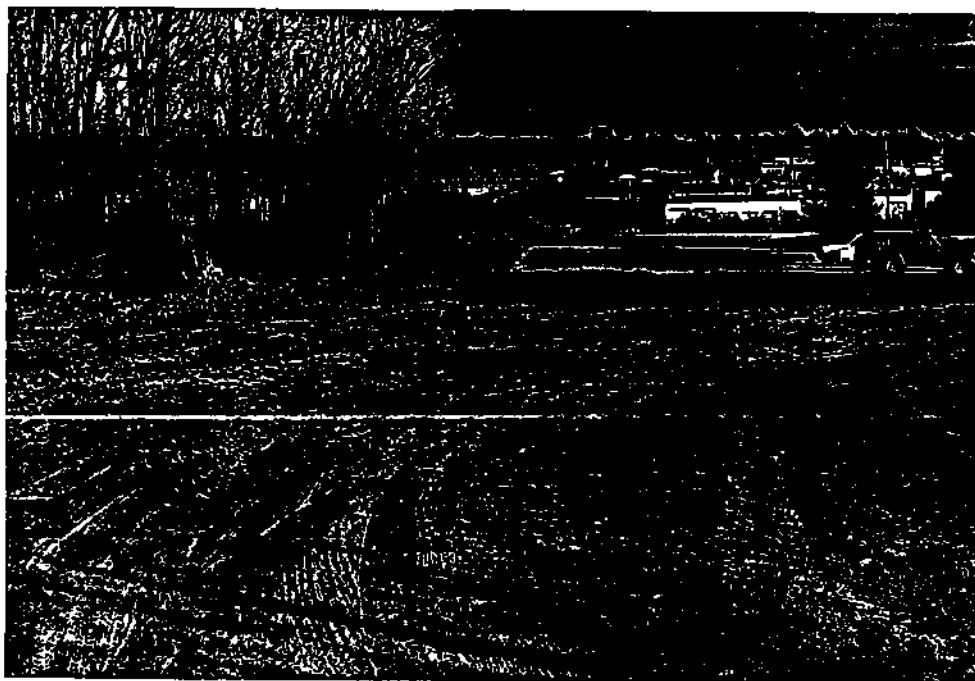
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Exp Number 6  
Date 11/12/87  
Time 1353 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction S

Subject Area west of ECA parking lot prior to backfilling

ON SCENE PHOTOGRAPHS



Exp Number 7  
Date 11/12/87  
Time 1355 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction E

Subject Area of old retention pond after backfilling

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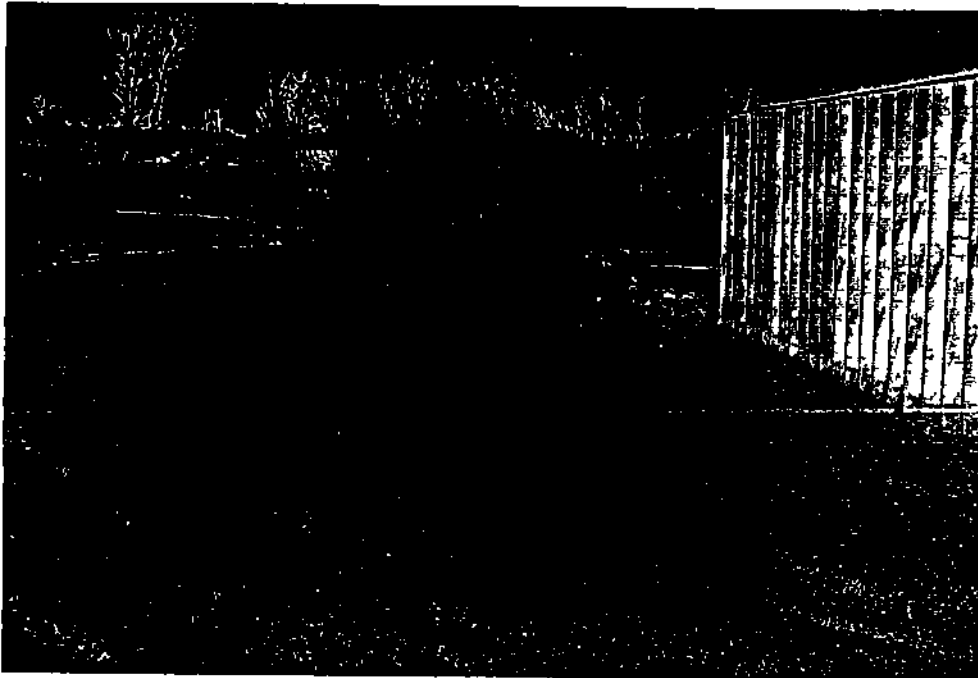


Exp Number 8  
Date 11/12/87  
Time 1400 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction E

Subject Embankment on south side of ECA



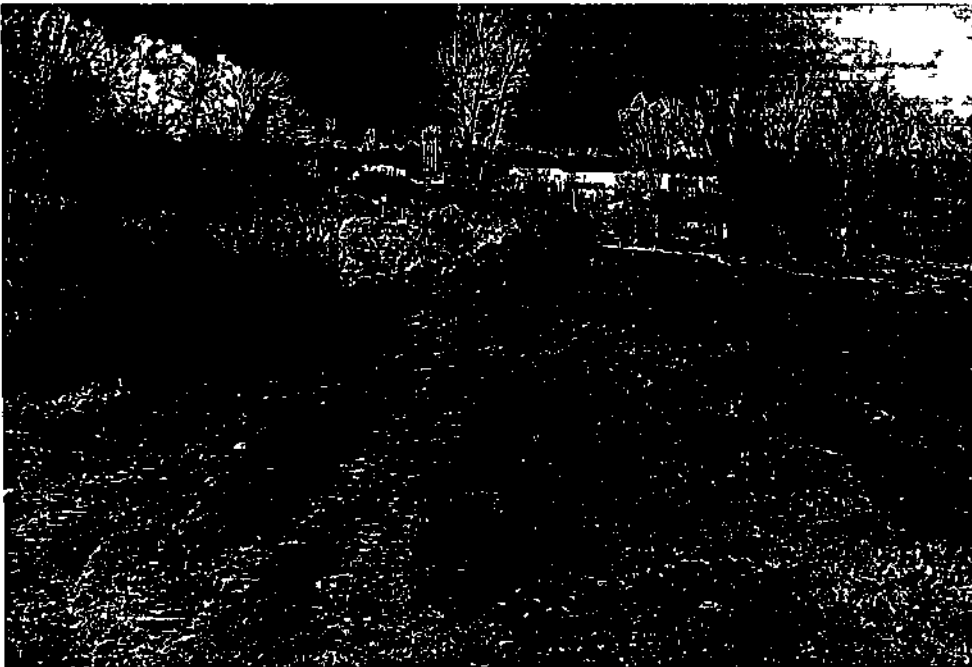
ON SCENE PHOTOGRAPHS



Exp Number 9  
Date 11/12/87  
Time 1402 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction N

Subject Embankment on west side of ECA

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Exp Number 10  
Date 11/12/87  
Time 1404 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction N

Subject Erosion control berm at top of embankment on west side of ECA

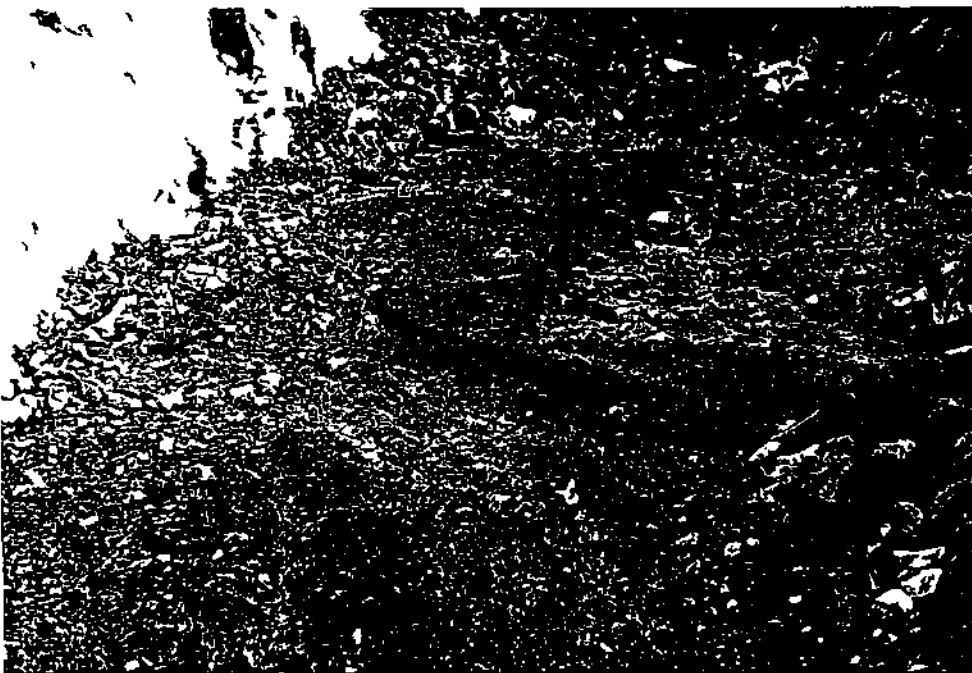
ON SCENE PHOTOGRAPHS



Exp Number 11  
Date 11/12/87  
Time 1410 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction NE

Subject Operator cleaning screen on shaker/sieve

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Exp Number 12  
Date 11/12/87  
Time 1412 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction N/A

Subject Clay pigeon fragments that have washed into trench in Section J

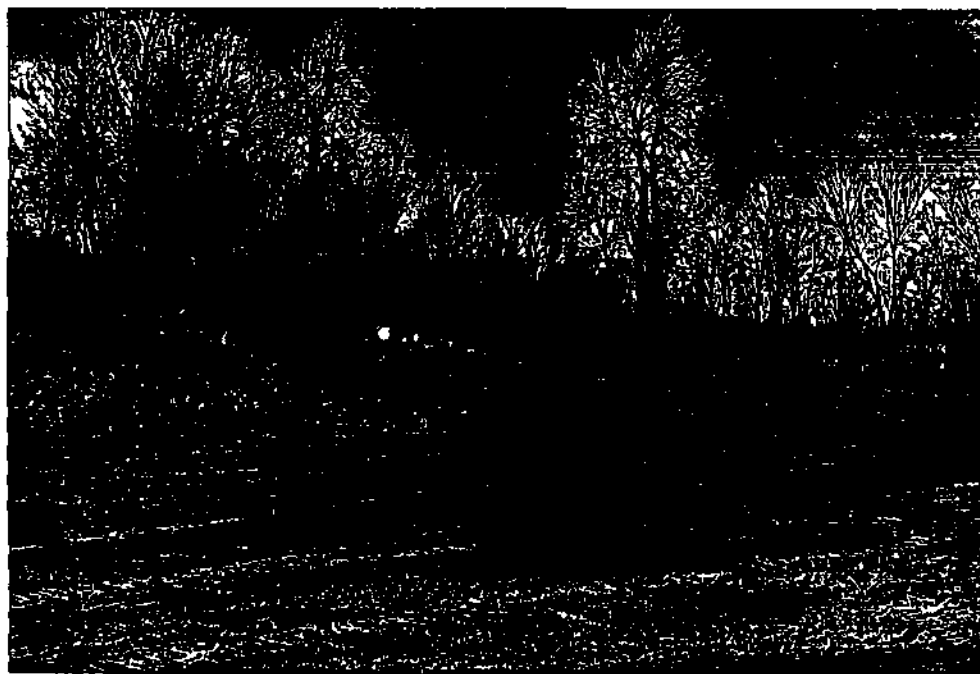
ON SCENE PHOTOGRAPHS



Exp Number 13  
Date 11/12/87  
Time 1415 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction E

Subject Stockpile of contaminated soil at head of trench in Section J

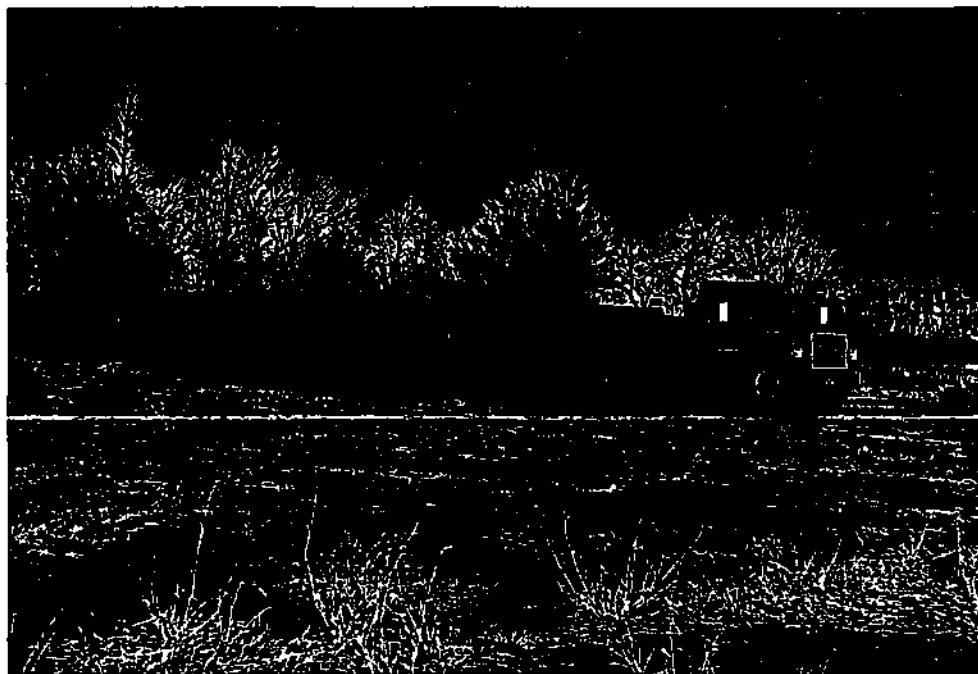
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Exp Number 14  
Date 11/12/87  
Time 1418 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction N

Subject Stockpile of clay pigeon fragments on north side of site

ON SCENE PHOTOGRAPHS



Exp Number 15  
Date 11/12/87  
Time 1421 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction NE

Subject Stockpile of clay pigeon fragments on north side of site

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Exp Number 16  
Date 11/12/87  
Time 1423 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction SW

Subject View of the site from the north toward Section J

ON SCENE PHOTOGRAPHS



Exp Number 17

Date 11/12/87

Time 1423 hours

Photographer M Doolan

Witness None

Camera Pentex K-1000

Film Kodak ASA 200

Direction S

Subject View of the central portion of the site from the north

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Exp Number 18

Date 11/12/87

Time 1423 hours

Photographer M Doolan

Witness None

Camera Pentex K-1000

Film Kodak ASA 200

Direction S

Subject View of the central portion of the site from the north

ON SCENE PHOTOGRAPHS



Exp Number 19  
Date 11/12/87  
Time 1423 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction SE

Subject View of the eastern portion of the site from the north  
toward the clay pigeon pit

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Exp Number 20  
Date 11/12/87  
Time 1425 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction SE

Subject Shaker operation in progress separating clay pigeon fragments from soil  
Clay pigeon fragments and soil falling into dump truck, soil falling to  
ground Some blowing dust apparent

ON SCENE PHOTOGRAPHS



Exp Number 21  
Date 11/12/87  
Time 1426 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction E

Subject Shaker operation in progress separating clay pigeon fragments from soil  
Blowing dust apparent

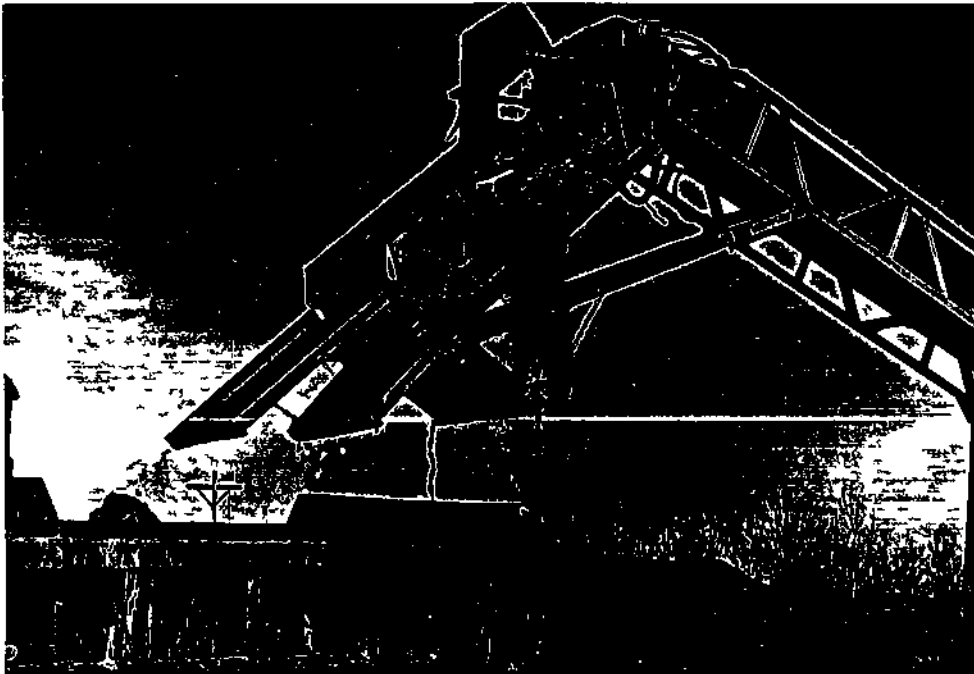
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Exp Number 22  
Date 11/12/87  
Time 1427 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction NE

Subject Shaker operation - soil falling to ground and clay pigeon fragments with  
large clumps of soil and sod falling into dump truck

ON SCENE PHOTOGRAPHS



Exp Number 23  
Date 11/12/87  
Time 1430 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction NE

Subject Shaker operation - soil falling to ground and clay pigeon fragments with large clumps of soil and sod falling into dump truck

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Exp Number 24  
Date 11/12/87  
Time 1431 hours  
Photographer M Doolan  
Witness None  
Camera Pentex K-1000  
Film Kodak ASA 200  
Direction E

Subject Operator loading shaker



Ms Mary Erio  
Engineer  
Burns & McDonnell  
Post Office Box 173  
Kansas City, Missouri 64141

Dear Ms. Erio

As you know representatives of Tetra Tech have been witnessing for EPA, cleanup and sampling activities being conducted under the Consent Order at Elliott Shooting Park by the owner of the property Boatman's Raytown Bank. Enclosed is a report from Tetra Tech on their oversight observations and recommendations. I share these with you for your consideration in any additional work conducted at the site. You need to consider what measures would be appropriate to address some of the concerns raised and expressed. The bottom line, for EPA to release the site as clean, will be our receipt of analytical data showing the site is clean (i.e., does not contain unacceptable levels of lead in surface and near-surface soils) after all work prior to site development has been completed. We have several times noted that areas of the site which were clean appear to have been recontaminated, by the flow of surface runoff or from the movement of heavy equipment from a "dirty" area of the site to a "clean" area. We have made these observations because we have an interest in seeing the cleanup progress efficiently and would like to see the potential responsible parties avoid the necessity and expense of cleaning a portion of the site more than once.

We have also noted that personnel onsite often are not wearing the personnel protection that was described in the approved work plan. The EPA expects compliance with the approved plan. We have brought these matters to your attention in order that the potential responsible parties might take steps to comply with regulations of other federal authorities, such as, the Occupational Safety & Health Administration (OSHA). Failure of onsite personnel to wear the dust masks during activities, could result in violations of other (than EPA's) Federal regulations, such as those of the OSHA.

WSTH SPFD SCOM-Crawford-ym x679 11/27/87 disk #14

SCOM  
Crawford

*SC*  
12/3/87

CNSL  
Eaackel

*EA*  
12/3/87

SCOM  
Smith

*SM*  
12/3/87

SPFD  
Morby

*MR*  
12/3/87

Please contact me if you or Mr. Dexter (of Boatman's Baytown Bank) have any questions in these matters

Sincerely yours,

David V. Crawford  
Remedial Project Manager  
Superfund Compliance Section  
Waste Management Division

Enclosure

cc William Dexter, Boatman's Baytown Bank ✓

bcc Russ Krohn, Tetra Tech ✓  
Gary Parker, Jacobs Engineering ✓  
Paul Doherty, ENSV SINV ✓  
Gerhardt Braeckel, CNSL ✓  
Ed Skowronski, CNSL ✓